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			data from INPADOC
NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and
			USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for
			U.S. patent records in CA/CAPLUS
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from
			CHEMCATS
NEWS	19	JUN 06	The Analysis Edition of STN Express with Discover!

(Version 8.0 for Windows) now available

NEWS 20 JUN 13 RUSSIAPAT: New full-text patent database on STN

NEWS 21 JUN 13 FRFULL enhanced with patent drawing images

NEWS 22 JUN 27 MARPAT displays enhanced with expanded G-group definitions

and text labels

NEWS 23 JUL 01 MEDICONF removed from STN

NEWS 24 JUL 07 STN Patent Forums to be held in July 2005

NEWS 25 JUL 13 SCISEARCH reloaded

NEWS 26 JUL 20 Powerful new interactive analysis and visualization software,

STN AnaVist, now available

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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* * * * * STN Columbus * * * * *

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=> File Medline EMBASE Biosis Caplus		
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FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 21:17:00 ON 10 AUG 2005

FILE 'EMBASE' ENTERED AT 21:17:00 ON 10 AUG 2005

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=> s (Asp2 or BACE) (10A) (protease or peptidase or proteinase)
L1 355 (ASP2 OR BACE) (10A) (PROTEASE OR PEPTIDASE OR
PROTEINASE)

=> s (protease or peptidase or proteinase or cleavage or cleaved or
cleave) (6A) (site or motif)
L2 72218 (PROTEASE OR PEPTIDASE OR PROTEINASE OR CLEAVAGE OR
CLEAVED OR
CLEAVE) (6A) (SITE OR MOTIF)

=> s (Asp2 or BACE) (6A) (engineer or engineered or recombinant or
(fusion (w) protein))
L3 44 (ASP2 OR BACE) (6A) (ENGINEER OR ENGINEERED OR
RECOMBINANT OR
(FUSION (W) PROTEIN))

=> s l1 and l2 and l3
L4 6 L1 AND L2 AND L3

=> duplicate
ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove
ENTER L# LIST OR (END):l4
DUPLICATE PREFERENCE IS 'MEDLINE, EMBASE, BIOSIS, CAPLUS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L4
L5 3 DUPLICATE REMOVE L4 (3 DUPLICATES REMOVED)

=> s EINLETD
L6 0 EINLETD

=> d l5 1-3 bib ab

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:588488 CAPLUS
DN 143:92074
TI Modified pro- β -secretase/BACE-1 and production of β -secretase/
BACE-1 with **recombinant** cells
IN Ballinger, Marcus; Randal, Michael L.
PA Sunesis Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.
DATE	-----	----	-----	-----

PI	WO 2005060384	A2	20050707	WO 2004-US21816
	20040707			

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
CA, CH;
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZW, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
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AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT,
RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE,
SN, TD, TG

US 2005074456 A1 20050407 US 2003-726967
20031202

PRAI US 2003-726967 A 20031202
US 2002-430984P P 20021204

AB The present invention is directed to **engineered** polypeptides
having **BACE** activity. In certain embodiments, the polypeptides
also comprise an engineered **cleavage site**. Also
provided are polypeptides comprising a prodomain, an engineered
cleavage site, and a **protease** domain. The
polypeptides are properly folded and are **cleaved** at the
engineered **cleavage site** in vitro, producing
homogeneous prepns. of purified **protease** having **BACE**
activity. The invention further pertains to nucleic acids,
expression
vectors, and host cells comprising the expression vectors for
making the
engineered polypeptides.

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:247466 CAPLUS
DN 134:277406

TI Cloning and characterization of mammalian secretase isoenzymes,
their
amyloid precursor protein substrates, and uses for treatment or
prevention
of Alzheimer's disease

IN Gurney, Mark; Bienkowski, Michael Jerome
PA Pharmacia & Upjohn Company, USA
SO PCT Int. Appl., 189 pp.
CODEN: PIXXD2
DT Patent

LA English

FAN.CNT 8

PATENT NO.	KIND	DATE	APPLICATION NO.
PI WO 2001023533	A2	20010405	WO 2000-US26080
20000922			
WO 2001023533	A3	20020510	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
WO 2000017369	A2	20000330	WO 1999-US20881
19990923			
WO 2000017369	A3	20001123	
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6699671	B1	20040302	US 1999-416901
19991013			
CA 2397786	AA	20010405	CA 2000-2397786
20000922			
AU 2000076071	A5	20010430	AU 2000-76071
20000922			
EP 1224297	A2	20020724	EP 2000-965338
20000922			

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL

NZ 517297 A 20040430 NZ 2000-517297

20000922

PRAI US 1999-155493P P 19990923
US 1999-404133 A 19990923
WO 1999-US20881 A2 19990923
US 1999-416901 A2 19991013
US 1999-169232P P 19991206
US 1998-101594P P 19980924
WO 2000-US26080 W 20000922

AB The present invention provides the enzyme and enzymic procedures
for

cleaving the β secretase **cleavage site** of the
amyloid precursor (APP) protein and associated nucleic acids,
peptides,

vectors, cells and isolates and assays. The identification and
characterization of the β secretase enzyme, termed Aspartyl
Protease 2 (Asp2) is disclosed. The authors also
identify and characterize both α -secretase and β -secretase
activities of a protease, designated as Asp1. Amino acid and
encoding

cDNA sequences of human Asp1, and two alternative splice
variants of the

secretase Asp2, human and murine Asp2(a) and Asp2(b), are
provided. The

authors describe regions in the proteases critical for their
unique function

and for the first time characterize their substrate. This is
the first

description of expressed isolated purified active protein of
this type,

assays that use the protein, in addition to the identification
and creation

of useful cell lines and inhibitors. The Asp1 processes the APP
protein

at the α -secretase site. The invention further provides a
modified

APP protein and associated nucleic acids, peptides, vectors,
cells, and cell

isolates, and assays that are particularly useful for identifying
candidate therapeutics for treatment or prevention of
Alzheimer's disease.

L5 ANSWER 3 OF 3 MEDLINE on STN

DUPLICATE 1

AN 2001078285 MEDLINE

DN PubMed ID: 10956649

TI A furin-like convertase mediates propeptide cleavage of BACE, the
Alzheimer's beta -secretase.

CM Erratum in: J Biol Chem 2001 May 4;276(18):15561

AU Bennett B D; Denis P; Haniu M; Teplow D B; Kahn S; Louis J C;
Citron M;

Vassar R
 CS Department of Neurology, Harvard Medical School, and Center for
 Neurologic Diseases, Brigham and Women's Hospital, Boston, Massachusetts
 02115, USA.
 SO Journal of biological chemistry, (2000 Dec 1) 275 (48) 37712-7.
 Journal code: 2985121R. ISSN: 0021-9258.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200101
 ED Entered STN: 20010322
 Last Updated on STN: 20010723
 Entered Medline: 20010111
 AB The novel transmembrane aspartic **protease BACE** (for
 Beta-site APP Cleaving Enzyme) is the beta-secretase that
 cleaves amyloid precursor protein to initiate beta-amyloid
 formation. As
 such, BACE is a prime therapeutic target for the treatment of
 Alzheimer's
 disease. **BACE**, like other aspartic **proteases**, has a
 propeptide domain that is removed to form the mature enzyme.
 BACE
 propeptide cleavage occurs at the sequence RLPR downward arrowE,
 a
 potential furin recognition motif. Here, we explore the role of
 furin in
 BACE propeptide domain processing. BACE propeptide cleavage in
 cells does
 not appear to be autocatalytic, since an inactive D93A mutant of
 BACE is
 still cleaved appropriately. BACE and furin co-localize within
 the Golgi
 apparatus, and propeptide cleavage is inhibited by brefeldin A
 and
 monensin, drugs that disrupt trafficking through the Golgi.
 Treatment of
 cells with the calcium ionophore, leading to inhibition of
 calcium-dependent proteases including furin, or transfection
 with the
 alpha(1)-antitrypsin variant alpha(1)-PDX, a potent furin
 inhibitor,
 dramatically reduces cleavage of the BACE propeptide. Moreover,
 the BACE
 propeptide is not processed in the furin-deficient LoVo cell
 line;
 however, processing is restored upon furin transfection.
 Finally, in
 vitro digestion of **recombinant** soluble **BACE** with
recombinant furin results in complete **cleavage** only at
 the established E46 **site**. Taken together, our results strongly

suggest that furin, or a furin-like proprotein convertase, is responsible for cleaving the BACE propeptide domain to form the mature enzyme.

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	51	(Asp2 or BACE) and (protease or peptidase or proteinase)	USPAT	OR	OFF	2005/08/10 20:56
L2	15650	(protease or peptidase or proteinase or cleavage or cleaved or cleave) near6 (site or motif)	USPAT	OR	OFF	2005/08/10 20:56
L3	34	I1 and I2	USPAT	OR	OFF	2005/08/10 20:56
L4	43	(Asp2 or BACE) near6 (engineer or engineered or recombinant or (fusion (w) protein))	USPAT	OR	OFF	2005/08/10 20:57
L5	28	I3 and I4	USPAT	OR	OFF	2005/08/10 21:11
L6	0	EINLETD	USPAT	OR	OFF	2005/08/10 21:11